

WO 2004/072386

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WHAT IS CLAIMED IS:

1. A scaffolding system for supporting the excavated earth retaining wall by forming a polygonal closed section, comprising:

a prestressed wale comprising a plurality of triangular tendon supports in the middle portion, a tendon-anchoring unit at both ends of said wale, and a connecting
5 brace for connecting said supports and said tendon-anchoring unit; and

a strut constituted by a truss or a plurality of H-beams or an H-beam having a large cross section and strengthened for supporting said tendon-anchoring unit.

10 2. The system as defined in claim 1, wherein said triangular tendon support is constituted by a vertical member and inclined member, or only by vertical members, or only by inclined members for forming a triangle and supporting said wale.

3. The system as defined in claim 1, wherein said triangular tendon support is
15 supported and connected by an intermediate pile and a support beam for the tendon support.

4. The system as defined in claim 1, wherein said tendon-anchoring unit fixes a tendon and couples with said wale for applying the compression force and further
20 couples with said inclined member or vertical member for supporting the generated force.

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WO 2004/072386

PCT/KR2004/000294

5. The system as defined in claim 4, wherein said tendon-anchoring unit forms an isosceles triangle by using frame materials, the corner of said isosceles triangle is reinforced by a reinforcing member, wherein said tendon is fixed at one corner of said
5 isosceles triangle and a member facing said corner is directly connected to a truss strut or through a hydraulic jack or a screw jack, and the portion connected with said wale has a length adjusting function.

6. The system as defined in claim 4, wherein said tendon-anchoring unit forms a
10 trapezoid by using frame materials, the corner of said trapezoid is reinforced by a reinforcing member, said tendon is fixed at both corners, and the middle portion is directly connected to said truss strut or through a hydraulic jack or a screw jack.

7. The system as defined in claim 4, wherein said tendon-anchoring unit may be
15 provided with an inclined or vertical strut, a tendon entered from one side of said tendon-anchoring unit is fastened at an opposite side, a single wale or a double wale may be supported by said tendon-anchoring unit, and said tendon-anchoring unit is equipped with a screw jack or a precedent load jack having a length adjusting function.

20 8. A scaffolding system forming a polygonal closed section only by using a prestressed wale comprising a plurality of triangular tendon supports in the middle

WO 2004/072386

PCT/KR2004/000294

portion, a tendon-anchoring unit at both ends of said wale, and a connecting brace for connecting said supports and said tendon-anchoring unit.

9. The system as defined in claim 8, wherein said tendon-anchoring unit is a corner anchoring unit and is designed to be connected with said wale and to fix a tendon at both sides.

10. A vertical prestressed scaffolding system for supporting a channel type excavating surface, wherein a slab of the structure and intermediate struts are used as supports, an H-beam is inserted from behind a built wale, a short support is attached to the front of said wale and supported by a tendon, wherein said tendon is fastened to an anchoring unit of both ends of said wale.

11. The system as defined in claim 10, wherein said tendon-anchoring unit is for a vertical prestressed scaffolding system in which said wale or vertical beam is removably manufactured.

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